

RF EXPOSURE EVALUATION

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

EUT Specification

FCC ID	2A2Y8-FORZA60CR
EUTek Anborek Anbo	LED RGBLAC Spot Light
Frequency band (Operating)	☐ BT: 2.402GHz ~ 2.480GHz
Anbore Air Lotek Anbe	⊠ BLE: 2.402GHz ~ 2.480GHz
Anbotes And	☐ WLAN: 2.412GHz ~ 2.462GHz
ek anbotek Anbo, ak	☐ RLAN: 5.180GHz ~ 5.240GHz
ok hotek Ambote	☐ RLAN: 5.260GHz ~ 5.320GHz
porte. And stek anbotek	☐ RLAN: 5.500GHz ~ 5.700GHz
Anbotek Anbo sek shotek	☐ RLAN: 5.745GHz ~ 5.825GHz
hotek Anbore Ant	☐ Others:
Device category	☐ Portable (<20cm separation)
Anbo Ak abovek Ar	⊠ Mobile (>20cm separation)
k Aupoli All Hotek	Others
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm2)
tek abotek Anbo	☐ General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	⊠ Single antenna
Anbore And Otek Anbor	☐ Multiple antennas
Anbotek Anbo	☐ Tx diversity
k abotek Anbore An	☐ Rx diversity
All Anbotek	☐ Tx/Rx diversity
Antenna gain (Max)	BLE: 2.32dBi
thotek Aupor Air Otek	SRD: 3.20dBi
Evaluation applied	⊠ MPE Evaluation
And sek abotek Anbor	☐ SAR Evaluation







Limits for Maximum Permissible Exposure(MPE)

		-70~	1		
Frequency	Electric Field	Magnetic Field	Power	Average Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)		
k Aupoter	(A) Limits for (Occupational/Contr	ol Exposures	Pup.	
300-1500		hotek - Anbote	F/300	botek 6 Ar	
1500-100000	k Arbole	Ans tek-	5	6	
Anbore, Am	(B) Limits for Gene	eral Population/Und	control Exposures	Am	
300-1500	- botek	Auport A	F/1500	And 6	
1500-100000	inbor - Ar	k Alpoter	And ek 1 abotek	30	

Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm²
Pout=output power to antenna in Mw

G= gain of antenna in linear scale

Pi=3.1416

R= distance between observation point and center of the radiator in cm Pd the limit of MPE, 1mW/cm2. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Max Measurement Result

101	Operating Mode	Channel Frequency (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm²)
	BLE_2M	2480	3.19	3.19 ±1	4.19	2.32	0.0009	otek 1 Anb

SRD:

0	Antenna Gain (dBi)	Antenna Gain (numeric)	Max Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm²)	Test Result
	3.20	2.0893	18.63	72.9458	0.03034	1	Complies

Note: The device does not support simultaneous transmission of BLE & 2.4G SRD.

Result: No Standalone SAR test is required



